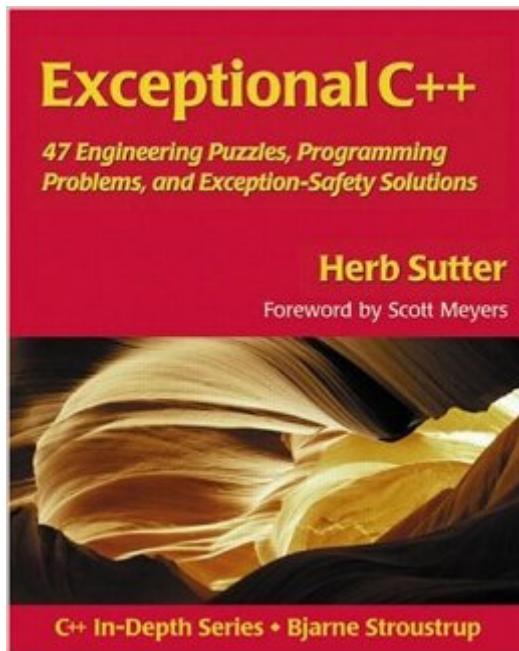


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# Exceptional C++: 47 Engineering Puzzles, Programming Problems, And Solutions



## Synopsis

Exceptional C++ shows by example how to go about sound software engineering in standard C++. Do you enjoy solving thorny C++ problems and puzzles? Do you relish writing robust and extensible code? Then take a few minutes and challenge yourself with some tough C++ design and programming problems. The puzzles and problems in Exceptional C++ not only entertain, they will help you hone your skills to become the sharpest C++ programmer you can be. Many of these problems are culled from the famous Guru of the Week feature of the Internet newsgroup comp.lang.c++.moderated, expanded and updated to conform to the official ISO/ANSI C++ Standard. Each problem is rated according to difficulty and is designed to illustrate subtle programming mistakes or design considerations. After you've had a chance to attempt a solution yourself, the book then dissects the code, illustrates what went wrong, and shows how the problem can be fixed. Covering a broad range of C++ topics, the problems and solutions address critical issues such as:

- \*Generic programming and how to write reusable templates
- \*Exception safety issues and techniques
- \*Robust class design and inheritance
- \*Compiler firewalls and the Pimpl I

## Book Information

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## Customer Reviews

As a professional programmer I find the Guru of the Week questions annoying, because they usually point out that I don't know some dang thing about C++. (I don't know too many people who appreciate being pointed out how dumb they are weekly.) Then someone who appears to have nothing better to do than solve C++ puzzles jumps in with a 6 page submission on how to solve the

problem, which is usually wrong. Then six more self appointed guru's jump in and fill pages of discussion, Then after filling my head with all the wrong answers to a particular problem, Herb smuggly answers the question with the real answer. Anoints another guru and the process repeats. In the meantime I've lost total interest in the discussion. Thank you for Deja news where I can read the first and last postings(The puzzle and the solution). That said, this book is full of those got ya! puzzles. Fortunately Herb is a kind writer and you don't feel too dumb when he points out why a particular puzzle has a problem and what it is. And like Deja news you can skip all the wrong answers, arguments about the arcane and get right to the meat of the problem. Herb also got a chance to make the puzzles more clear, where the language of the original puzzle confused the issue unnecessarily. The best reason to buy this book is that its the only published text so far on how to use C++ Exceptions. There are some articles in C++ Report but not many on the traps and pitfalls of their usage. Stroustrup's book "C++ Programming Language" tells you how the mechanism works, and makes some suggestions. Herb tells you what it will cost you if you don't use them, only partially use them, or totally abuse them. And he shows you how a minor misuse can make you have major problems.

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